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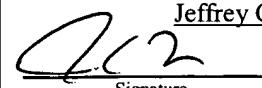


## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/731,596  
Filed: December 9, 2003  
Inventor(s):  
Bijan Sayyarrodsari, Eric Hartman,  
Celso Axelrud, and Kadir Liano  
  
Title: SYSTEM AND METHOD  
OF APPLYING ADAPTIVE  
CONTROL TO THE  
CONTROL OF PARTICLE  
ACCELERATORS WITH  
VARYING DYNAMICS  
BEHAVIORAL  
CHARACTERISTICS  
USING A NONLINEAR  
MODEL PREDICTIVE  
CONTROL TECHNOLOGY

Examiner: Pham, Thomas K.  
Group/Art Unit: 2121  
Atty. Dkt. No: 5650-03600

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Alexandria, VA 22313-1450, on the date indicated below.

  
Signature

8/16/2006  
Date

## RESPONSE TO OFFICE ACTION OF MAY 1, 2006

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This paper is submitted in response to the Office Action of May 1, 2006, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.